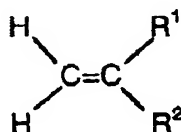


## Claims:

1. Copolymer which is suitable for preparing additives for solvent deparaffinization of paraffinic mineral oil distillates and consists of free-radically polymerizable monomers of the following formulae A and B:

Formula A:



where

$\text{R}^1 = \text{H or CH}_3$ ,

$\text{R}^2 = \text{phenyl, benzyl, naphthyl, anthranyl, phenanthryl, N-pyrrolidonyl, N-imidazolyl, 2-pyridyl, 4-pyridyl or an alkyl-substituted aromatic substituent or}$

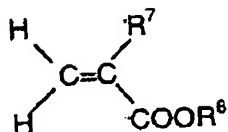
$\text{R}^2 = \text{COOR}^3$  where  $\text{R}^3 = \text{H or R}^3$  is a linear or branched alkyl radical of  $\text{C}_1\text{-C}_{10}$

or  $\text{R}^3$  is a heteroatom-substituted radical  $-(\text{CH}_2)_n\text{X}$  where  $\text{X} = \text{OH or X} = \text{N(R}^4)_2$  where  $n = 1\text{-}10$  and  $\text{R}^4$  is in each case independently  $\text{H or R}^4 = \text{C}_1\text{-C}_4\text{-alkyl}$  or  $\text{R}^3$  is  $-(\text{CH}_2\text{CH}_2\text{O})_m\text{R}^5$  where  $m = 1\text{-}90$  and  $\text{R}^5 = \text{H or R}^5 = \text{C}_1\text{-C}_{18}$  or  $\text{R}^3$  is a benzyl, phenyl or cyclohexyl radical

or  $\text{R}^2 = \text{CONHR}^6$  where  $\text{R}^6 = \text{H or R}^6$  is a linear or branched alkyl radical of  $\text{C}_1\text{-C}_{10}$

or  $\text{R}^6$  is a heteroatom-substituted radical  $-(\text{CH}_2)_n\text{X}$  where  $\text{X} = \text{OH or X} = \text{N(R}^4)_2$  where  $n = 1\text{-}10$  and  $\text{R}^4$  is in each case independently  $\text{H or R}^4 = \text{C}_1\text{-C}_4\text{-alkyl}$ ;

Formula B:



where  $\text{R}^7 = \text{H}$  or  $\text{CH}_3$

and the  $\text{R}^6$  radical = linear or branched alkyl radicals of  $\text{C}_{12}$ - $\text{C}_{40}$ .

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2. Copolymer according to Claim 1, characterized in that the proportion by weight of the monomer A in the total weight of the copolymer is 0.1-70%.

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3. Copolymer according to Claim 1 or 2, characterized in that at least 50% of the monomers B contain alkyl radicals  $\text{R}^6$  of chain length greater than or equal to  $\text{C}_{16}$ .

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4. Copolymer according to one of Claims 1-3, characterized in that the monomer A consists of one or more of the monomers styrene, butyl methacrylate, methyl methacrylate or 2-ethylhexyl methacrylate.

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5. Polymer mixture comprising one or more copolymers according to Claims 1 to 4, and also one or more further homo- or copolymers which are polyalkyl methacrylates and have alkyl substituents of chain length  $\text{C}_1$ - $\text{C}_{24}$ .

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6. Polymer mixture according to Claim 5, characterized in that the further homo- or copolymers have alkyl substituents of chain length  $\text{C}_{12}$ - $\text{C}_{18}$ .

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7. Polymer mixture according to Claim 5 or 6, characterized in that the ratio of the copolymers and the further homo- or copolymers is 1:20 to 20:1.

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8. Polymer mixture according to Claims 5 to 7, characterized in that the further homo- or

copolymer is a polyalkyl methacrylate which contains up to 20% by weight of C<sub>1</sub>-C<sub>10</sub> methacrylates.

- 5    9. Copolymer or polymer mixture according to one or more of Claims 1 to 8, characterized in that the molecular weight of the polymers used is between 10,000 and 3,000,000 g/mol.
- 10   10. Process for preparing the polymer components according to Claims 1 to 9 in a manner known per se in a batch process by introducing all of the monomers used into the initial charge, or in a feed process by synthesizing at least one of the  
15   polymers of the polymer mixture an increased concentration of at least one of the monomers used in the initial monomer charge in comparison to the other monomer types used with the aim of preparing a polymer mixture in which different polymers are  
20   present with regard to the monomer composition.
11. Dewaxing additive comprising a copolymer or polymer mixture according to one or more of Claims 1 to 9, and also optionally further  
25   customary additives for dewaxing additives.
12. Dewaxing additive according to Claim 11, characterized in that the dewaxing additive is a solution of the copolymers or the polymer mixture  
30   in an oil of the paraffinic or naphthenic type or else in an organic solvent.
13. Dewaxing additive according to Claim 12, characterized in that the organic solvent is toluene,  
35   xylene and/or naphtha.
14. Use of a dewaxing additive according to one or more of Claims 11 to 13 for solvent

deparaffinization of paraffinic mineral oil distillates.

- 5      15. Use of a dewaxing additive according to Claim 14, characterized in that the addition rate of the copolymer or of the polymer mixture in the dewaxing process is 0.005-0.5%.